

Inventors: Civelli et al.
Serial No. 09/780,576
Filed: February 9, 2001
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CURRENT STATUS OF ALL CLAIMS

Claims 1 to 45. Cancelled.

⁶ 7 ~~46~~. (Currently amended) The method of claim ~~[[3]]~~
~~54~~, wherein said G-protein coupled signal is increased
intracellular calcium ion concentration.

⁶ 8 ~~47~~. (Currently amended) The method of claim ~~[[3]]~~
~~54~~, wherein said receptor is contacted with 2 or more different
candidate compounds ~~said one or more candidate compounds~~
~~comprises 100 or more different candidate compounds.~~

⁶ 9 ~~48~~. (Currently amended) The method of claim ~~[[3]]~~
~~54~~, wherein said candidate compound contacts said ADP-glucose
receptor polypeptide in the presence of ADP-glucose.

¹³
¹² ~~49~~. (Currently amended) The method of claim ~~[[9]]~~
~~57~~, wherein said receptor is contacted with 2 or more different
candidate compounds ~~said one or more candidate compounds~~
~~comprises 100 or more different candidate compounds.~~

¹⁴
¹² ~~50~~. (Currently amended) The method of claim ~~[[9]]~~
~~57~~, wherein said candidate compound contacts said ADP-glucose
receptor polypeptide in the presence of ADP-glucose.

2 ~~51~~. (Currently amended) The method of claim ~~[[14]]~~
~~50~~, wherein said G-protein coupled signal is increased
intracellular calcium ion concentration.

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1 3 ~~52~~. (Currently amended) The method of claim ~~[[14]]~~
~~60~~, wherein said receptor is contacted with 2 or more different
candidate compounds ~~said one or more candidate compounds~~
~~comprises 100 or more different candidate compounds.~~

17 18 ~~53~~. (Currently amended) The method of claim ~~[[19]]~~
~~63~~, wherein said receptor is contacted with 2 or more different
candidate compounds ~~said or more candidate compounds comprises~~
~~100 or more different candidate compounds.~~

6 ~~54~~. (New) A method of identifying an ADP-glucose
receptor agonist, comprising:

(a) contacting an ADP-glucose receptor
polypeptide with at least one candidate compound under
conditions that permit said receptor to produce a G-protein
coupled signal in response to ADP-glucose, wherein said
ADP-glucose receptor polypeptide has the amino acid sequence
designated SEQ ID NO:2; and

(b) determining the ability of said candidate
compound to increase production of said G-protein coupled
signal, wherein a candidate compound that increases production
of said signal is thereby identified as an ADP-glucose receptor
agonist.

10 ~~55~~. (New) The method of claim ~~54~~⁶, wherein said
receptor is contacted with a library of candidate compounds.

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11 ~~56~~⁶. (New) The method of claim ~~54~~⁶, wherein said receptor is contacted with 100 or more different compounds separately.

12 ~~57~~. (New) A method of identifying an ADP-glucose receptor ligand, comprising:

(a) contacting an ADP-glucose receptor polypeptide with at least one candidate compound under conditions that permit said receptor to selectively bind ADP-glucose, wherein said ADP-glucose receptor polypeptide has the amino acid sequence designated SEQ ID NO:2; and

(b) determining the ability of said candidate compound to bind said ADP glucose receptor, wherein a candidate compound that selectively binds said ADP-glucose receptor is thereby identified as an ADP-glucose receptor ligand.

15 ~~58~~¹². (New) The method of claim ~~57~~¹², wherein said receptor is contacted with a library of candidate compounds.

16 ~~59~~¹². (New) The method of claim ~~57~~¹², wherein said receptor is contacted with 100 or more different compounds separately.

1 ~~60~~. (New) A method of identifying an ADP-glucose receptor agonist or antagonist, comprising:

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(a) contacting an ADP-glucose receptor polypeptide with at least one candidate compound in the presence of ADP-glucose under conditions wherein said receptor produces a G-protein coupled signal in response to ADP-glucose, wherein said ADP-glucose receptor polypeptide has the amino acid sequence designated SEQ ID NO:2;

(b) determining the ability of said candidate compound to alter production of said G-protein coupled signal, wherein a candidate compound that alters production of said signal is identified as an ADP-glucose receptor agonist or antagonist.

4 ~~61~~¹. (New) The method of claim ~~60~~¹, wherein said receptor is contacted with a library of candidate compounds.

5 ~~62~~¹. (New) The method of claim ~~60~~¹, wherein said receptor is contacted with 100 or more different compounds separately.

17 ~~63~~. (New) A method of identifying an ADP-glucose receptor ligand, comprising:

(a) contacting an ADP-glucose receptor polypeptide with at least one candidate compound in the presence of ADP-glucose under conditions that permit said receptor to selectively bind ADP-glucose, wherein said ADP-glucose receptor polypeptide has the amino acid sequence designated SEQ ID NO:2; and

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(b) determining the ability of said candidate compound to bind said ADP-glucose receptor, wherein a candidate compound that selectively binds said ADP-glucose receptor is thereby identified as an ADP-glucose receptor ligand.

19 ~~64~~. (New) The method of claim ¹⁷~~63~~, wherein said receptor is contacted with a library of candidate compounds.

20 ~~65~~. (New) The method of claim ¹⁷~~63~~, wherein said receptor is contacted with 100 or more different compounds separately.